

Walnutdale Dairy 2008 Fields exceeding RUSLE2 Rates and Alternate crop plans

Field ID	Acres	Tolerable Rate	Predicted rate	Alternate crop rate	Action/Crop change
H3	21	5 tons/yr	23 tons/yr	5 tons/yr	This field should go to alfalfa to reduce soil erosion rates to below T
H4A	18	5 tons/yr	15 tons/yr	5 tons/yr	Adding wheat into a three year rotation brings the predicted rate to the tolerable level
H4B	18	5 tons/yr	6.5 tons/yr	2.1 tons/yr	Adding wheat into a four year rotation brings the predicted rate to the tolerable level
H4C	18	5 tons/yr	11 tons/yr	4.6 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level
H4D	18	5 tons/yr	7.2 tons/yr	3.5 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level
H8	14	5 tons/yr	5.9 tons/yr	3.1 tons/yr	The current plan is to seed this field to alfalfa in 2008, this will bring the predicted erosion belwo the tolerable level
ED21A	22	5 tons/yr	6.8 tons/yr	2.3 tons/yr	Adding wheat into a four year rotation brings the predicted rate to the tolerable level
ED21B	22	5 tons/yr	9.7 tons/yr	3.2 tons/yr	Adding wheat into a four year rotation brings the predicted rate to the tolerable level
K26A	30	3 tons/yr	9.9 tons/yr	2.9/.096 tons/yr	Keeping this field in grain corn will bring the predicted level below 3, alfalfa will bring it below .1
EM28A	14	3 tons/yr	9.1 tons/yr	1.6 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level
EM28B	14	5 tons/yr	7.6 tons/yr	4.2 tons/yr	Adding wheat into a four year rotation brings the predicted rate to the tolerable level
UB37A	23	4 tons/yr	6.3 tons/yr	4 tons/yr	Adding wheat into a four year rotation brings the predicted rate to the tolerable level
UB37B	23	4 tons/yr	6.3 tons/yr	4 tons/yr	Adding wheat into a four year rotation brings the predicted rate to the tolerable level
MR39A	24	4 tons/yr	4.9 tons/yr	3.2 tons/yr	Adding wheat into a four year rotation brings the predicted rate to the tolerable level
MR39B	24	4 tons/yr	4.9 tons/yr	3.2 tons/yr	Adding wheat into a four year rotation brings the predicted rate to the tolerable level
N40B	16	3 tons/yr	5 tons/yr	1.5 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level
Nov58A	19	5 tons/yr	5.8 tons/yr	2.5 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level
MN61A	17	5 tons/yr	5.8 tons/yr	4.3 tons/yr	Adding wheat into a five year rotation brings the predicted rate below the tolerable limit
MN61B	16	5 tons/yr	15 tons/yr	4.3 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level
MN61C	16	5 tons/yr	8.9 tons/yr	2.7 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level
MN61D	33	5 tons/yr	8.9 tons/yr	2.7 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level
C66	20	5 tons/yr	9.9 tons/yr	3.6 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level
C67	17	5 tons/yr	16 tons/yr	4.5 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level
C69	7	5 tons/yr	12 tons/yr	3.3 tons/yr	Adding wheat into a three year rotation brings the predicted rate below the tolerable level

Total: 464 acres

RUSLE2 Erosion Calculation Record

File: plans\Walnutdale Farm 2008.mmp

Access Group: R2_NRCS_Fld_Office

Inputs:

Owner name	Location	Info
Walnutdale Farm	Michigan\Allegan County	Created at 10:17:23 AM on 2/20/2008 by MMP 0.2.3.0.

Field name	Soil	Slope T Value	Slope length, ft	Slope steepness, %
Home 3 H3	Allegan, MI\75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	230	10
Home 4 H4A	Allegan, MI\14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	120	9.0
Home 4 H4B	Allegan, MI\14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	370	3.0
Home 4 H4C	Allegan, MI\14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	190	6.0
Home 4 H4D	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	180	4.0
Home 5 H5	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	200	8.0
Home 6 H6	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	200	8.0
Home 7 H7	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	150	3.0
Home 8 H8	Allegan, MI\11B OSHTEMO-CHELSEA COMPLEX, 0 TO 6 PERCENT SLOPES\Oshtemo loamy sand 65%	5.0	150	6.0
██████████ H9N	Allegan, MI\11C OSHTEMO-CHELSEA COMPLEX, 6 TO 12 PERCENT SLOPES\Chelsea loamy fine sand 35%	5.0	150	6.0
██████████ 9 H9S	Allegan, MI\11C OSHTEMO-CHELSEA COMPLEX, 6 TO 12 PERCENT SLOPES\Chelsea loamy fine sand 35%	5.0	150	6.0
██████████ M13	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	6.0
██████████ West D14	Allegan, MI\75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	280	5.0

(b) (6) West D15	Allegan, MI\75B MARLETT-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	140	12
@@ NW D16	Allegan, MI\14C MARLETT LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	120	9.0
@@ Front D17A	Allegan, MI\75B MARLETT-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	240	8.0
@@ front D17B	Allegan, MI\75B MARLETT-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	200	6.0
(b) (6) Back D18	Allegan, MI\75B MARLETT-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	140	8.0
(b) (6) Corn D19	Allegan, MI\75B MARLETT-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	200	6.0
@@ back ED20	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	200	6.0
@@ n of Dr ED21A	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	250	4.0
@@ N of Dr ED21B	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	190	6.0
@@ s of Dr ED21C	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	180	5.0
Wingers W22A	Allegan, MI\28A RIMER LOAMY SAND, 0 TO 4 PERCENT SLOPES\Rimer loamy sand 90%	3.0	150	4.0
Wingers W22B	Allegan, MI\28A RIMER LOAMY SAND, 0 TO 4 PERCENT SLOPES\Rimer loamy sand 90%	3.0	150	4.0
@@ K26A	Allegan, MI\41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%	3.0	100	6.0
@@ K26B	Allegan, MI\8C GLYNWOOD CLAY LOAM, 6 TO 12 PERCENT SLOPES\Glynwood clay loam 90%	4.0	150	6.0
@@ East K27	Allegan, MI\8B GLYNWOOD CLAY LOAM, 1 TO 6 PERCENT SLOPES\Glynwood clay loam 93%	4.0	150	6.0
(b) (6) 108th EM28A	Allegan, MI\41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%	3.0	150	4.0
(b) (6) 108th EM28B	Allegan, MI\75B MARLETT-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	200	4.0
Caledonia C30A	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	220	4.0
Caledonia C30B	Allegan, MI\14C MARLETT LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	180	6.0
Duncan Lake DL31A	Allegan, MI\14C MARLETT LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	110	10

Duncan Lake DL31B	Allegan, MI\14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	99	16
████████ 146th LM32	Allegan, MI\12B OCKLEY LOAM, 1 TO 6 PERCENT SLOPES\Ockley loam 87%	4.0	150	8.0
████████ JS33	Allegan, MI\28A RIMER LOAMY SAND, 0 TO 4 PERCENT SLOPES\Rimer loamy sand 90%	3.0	150	4.0
████ C34	Allegan, MI\42B METAMORA SANDY LOAM, 1 TO 4 PERCENT SLOPES\Metamora sandy loam 90%	5.0	150	2.0
████ C-35	Allegan, MI\11B OSHTEMO-CHELSEA COMPLEX, 0 TO 6 PERCENT SLOPES\Oshtemo loamy sand 65%	5.0	150	2.0
████ C-36	Allegan, MI\51A THETFORD LOAMY FINE SAND, 0 TO 4 PERCENT SLOPES\Thetford loamy fine sand 88%	4.0	150	2.0
United Bank UB37A	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	6.0
United Bank UB37B	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	6.0
Wingers 14th W38A	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	250	2.0
Wingers 14th W38B	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	150	2.0
(b) (6) 139th MR39A	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	6.0
(b) (6) 139th MR39B	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	6.0
████ 134th N40A	Allegan, MI\8B GLYNWOOD CLAY LOAM, 1 TO 6 PERCENT SLOPES\Glynwood clay loam 93%	4.0	150	1.0
████ 134th N40B	Allegan, MI\41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%	3.0	150	2.0
████ 135th N40C	Allegan, MI\29 COHOCTAH SILT LOAM\Cohoctah silt loam 90%	5.0	100	1.0
████ N E41	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	150	2.0
████ E42	Allegan, MI\41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%	3.0	150	4.0
████ 43 T43	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	6.0
████ 44 T44	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	6.0
████ T45	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	6.0
M █████ MK46A	Allegan, MI\27C METEA LOAMY FINE SAND, 6 TO 12 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	8.0
M █████ MK46B	Allegan, MI\27C METEA LOAMY FINE SAND, 6 TO 12 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	8.0

(b) (6) E MK47	Allegan, MI\44C CHELSEA LOAMY FINE SAND, 0 TO 12 PERCENT SLOPES\Chelsea loamy fine sand 93%	5.0	150	8.0
(b) (6) NW J48	Allegan, MI\44B CHELSEA LOAMY FINE SAND, 0 TO 6 PERCENT SLOPES\Chelsea loamy fine sand 87%	5.0	200	2.0
(b) (6) NW2 J49	Allegan, MI\44B CHELSEA LOAMY FINE SAND, 0 TO 6 PERCENT SLOPES\Chelsea loamy fine sand 87%	5.0	200	2.0
(b) (6) J50	Allegan, MI\44B CHELSEA LOAMY FINE SAND, 0 TO 6 PERCENT SLOPES\Chelsea loamy fine sand 87%	5.0	150	4.0
(b) (6) M J51	Allegan, MI\44B CHELSEA LOAMY FINE SAND, 0 TO 6 PERCENT SLOPES\Chelsea loamy fine sand 87%	5.0	150	4.0
(b) (6) E J52	Allegan, MI\44B CHELSEA LOAMY FINE SAND, 0 TO 6 PERCENT SLOPES\Chelsea loamy fine sand 87%	5.0	150	6.0
(b) (6) JS53	Allegan, MI\44B CHELSEA LOAMY FINE SAND, 0 TO 6 PERCENT SLOPES\Chelsea loamy fine sand 87%	5.0	150	6.0
(b) (6) front N57	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	6.0
(b) (6) 58 N58A	Allegan, MI\75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	150	12
(b) (6) 58 N58B	Allegan, MI\27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%	4.0	150	8.0
(b) (6) 58 N58C	Allegan, MI\75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	150	6.0
(b) (6) 59 N59	Allegan, MI\14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	150	6.0
(b) (6) N60	Allegan, MI\14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	170	8.0
(b) (6) Front MN61A	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	150	4.0
(b) (6) MN61B	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	250	8.0
(b) (6) Center MN61C	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	150	6.0
(b) (6) North MN61D	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	150	6.0
Chesbro 40N C65A	Allegan, MI\75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	150	4.0
Chesbro 40S C65B	Allegan, MI\16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%	5.0	150	4.0
Chesbro SW C66	Allegan, MI\75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	200	6.0
Chesbro SM C67	Allegan, MI\14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	150	8.0
Chesbro SE C68	Allegan, MI\14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%	5.0	200	8.0

Chesbro S back C69	Allegan, MI\75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	150	6.0
Chesbro 70E C70E	Allegan, MI\75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%	5.0	200	10
Chesbro 70W C70W	Allegan, MI\51A THETFORD LOAMY FINE SAND, 0 TO 4 PERCENT SLOPES\Thetford loamy fine sand 88%	4.0	150	12
Chesbro 9ac C72	Allegan, MI\33A KIBBIE FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES\Kibbie fine sandy loam 93%	5.0	150	1.0
@@ 17-1	Allegan, MI\33A KIBBIE FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES\Kibbie fine sandy loam 93%	5.0	150	2.0
@@ 17-2	Allegan, MI\41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%	3.0	200	2.0
@@ 17-3	Allegan, MI\8B GLYNWOOD CLAY LOAM, 1 TO 6 PERCENT SLOPES\Glynwood clay loam 93%	4.0	250	2.0
@@ 17-4	Allegan, MI\8B GLYNWOOD CLAY LOAM, 1 TO 6 PERCENT SLOPES\Glynwood clay loam 93%	4.0	250	2.0
@@ 17-5	Allegan, MI\41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%	3.0	200	2.0
@@ 17-6	Allegan, MI\41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%	3.0	100	3.0
@@ 17-7	Allegan, MI\42B METAMORA SANDY LOAM, 1 TO 4 PERCENT SLOPES\Metamora sandy loam 90%	5.0	200	2.0
@@ NW BNW	Allegan, MI\30 COLWOOD SILT LOAM\Colwood silt loam 87%	5.0	200	2.0
@@ B73W	Allegan, MI\30 COLWOOD SILT LOAM\Colwood silt loam 87%	5.0	200	4.0
@@ E B73E	Allegan, MI\41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%	3.0	150	4.0
4th st 4th	Allegan, MI\63B RIDDLES LOAM, 1 TO 6 PERCENT SLOPES\Riddles loam 90%	5.0	150	3.0
@@ Thomp	Allegan, MI\44B CHELSEA LOAMY FINE SAND, 0 TO 6 PERCENT SLOPES\Chelsea loamy fine sand 87%	5.0	150	3.0
@@ Kam	Allegan, MI\42B METAMORA SANDY LOAM, 1 TO 4 PERCENT SLOPES\Metamora sandy loam 90%	5.0	150	3.0

Results

<i>Field name</i>	<i>Description</i>	<i>Management</i>	<i>Contouring system</i>	<i>Support practices</i>	<i>Terrace/diversion system</i>	<i>Cons. plan. soil loss, t/ac/yr</i>	<i>Sed. delivery</i>	<i>Fuel cost, US\$/ac</i>
Home 3 H3		temp\Walnutdale Silage corn, Fall Liquid @7500gal, Fall Cult, Silage Corn	a. rows up-and-down hill	-- none --	-- none --	23	23	19.23
Home 3 H3		temp\Walnutdale, Silage corn, Fall liquid 7500gal, Silage corn, Fall liquid 5000 gal, Wheat	a. rows up-and-down hill	-- none --	-- none --	7.1	7.1	31.63
Home 3 H3		temp\Walnutdale Silage corn, Fall 7500gal, Silage corn, Fall 5000, Wheat, Summer 7500, Summer Alfalfa 6 yrs	a. rows up-and-down hill	-- none --	-- none --	5.6	5.6	202.2
Home 4 H4A		temp\Walnutdale Silage corn, Fall Liquid @7500gal, Fall Cult, Silage Corn	a. rows up-and-down hill	-- none --	-- none --	15	15	19.23
Home 4 H4A		temp\Walnutdale, Silage corn, Fall liquid 7500gal, Silage corn, Fall liquid 5000 gal, Wheat	a. rows up-and-down hill	-- none --	-- none --	5.0	5.0	31.63
Home 4 H4B		temp\Silage Corn, Fall Chisel, Fcult, Silage Corn	a. rows up-and-down hill	-- none --	-- none --	6.5	6.5	15.65
Home 4 H4B		temp\SC,Fall Manure,SC,SC,NT wheat	a. rows up-and-down hill	-- none --	-- none --	2.1	2.1	113.9
Home 4 H4C		temp\Silage Corn, fall 7500gal, Silage Corn, Fall soilds 10ton, Silage Corn	a. rows up-and-down hill	-- none --	-- none --	11	11	30.38
Home 4 H4C		temp\Silage Corn, Liquid manure, Wheat, Silage corn	a. rows up-and-down hill	-- none --	-- none --	4.6	4.6	23.30
Home 4 H4D		temp\Silage Corn, Fall Chisel, Fcult, Silage Corn	a. rows up-and-down hill	-- none --	-- none --	7.2	7.2	15.65
Home 4 H4D		temp\Silage Corn, FC, fcult, Silage Corn, FC, fcult, Wheat	a. rows up-and-down hill	-- none --	-- none --	3.5	3.5	24.73
Home 5 H5		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.096	0.096	54.00
Home 6 H6		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.096	0.096	54.00
Home 7 H7		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.044	0.044	54.00
Home 8 H8		temp\SC,Fall Solid Manure, SC, Fall Solid Manure, SC (16ton)	a. rows up-and-down hill	-- none --	-- none --	5.9	5.9	26.58
Home 8 H8		temp\SC,Fall Solid Manure, SC, Fall Solid Manure, SC (16ton), spring AA	a. rows up-and-down hill	-- none --	-- none --	3.1	3.1	95.27

@@ H9N		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.038	0.038	47.25
@@ H9S		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.038	0.038	47.25
@@ M13		temp\Silage corn, Silage Corn, Spring Alfalfa seeding	a. rows up-and-down hill	-- none --	-- none --	3.4	3.4	81.94
@@ West D14		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.067	0.067	54.00
@@ West D15		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.15	0.15	54.00
@@ NW D16		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.10	0.10	54.00
@@ Front D17A		temp\Silage Corn, Injected manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	3.3	3.3	21.30
@@ front D17B		temp\Silage Corn, Injected manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	4.1	4.1	21.30
@@ Back D18		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.093	0.093	54.00
(b) (6) Corn D19		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.076	0.076	54.00
@@ back ED20		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.076	0.076	54.00
@@ n of Dr ED21A		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	6.8	6.8	25.13
(b) (6) n of Dr ED21A		temp\Corn Silage, Liquid Manure, Wheat, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	2.3	2.3	26.38
@@ N of Dr ED21B		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	9.7	9.7	25.13
@@ N of Dr ED21B		temp\Corn Silage, Liquid Manure, Wheat, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	3.2	3.2	26.38
@@ s of Dr ED21C		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.065	0.065	54.00

Wingers W22A		temp\SC, Spring 7500gal, SC, Spring 7500gal, SC	a. rows up-and-down hill	-- none --	-- none --	2.0	2.0	37.43
Wingers W22B		temp\SC, Spring 7500gal, SC, Spring 7500gal, SC	a. rows up-and-down hill	-- none --	-- none --	2.0	2.0	37.43
@@ Front K26A		temp\Grain Corn, FC Silage Corn, SC Silage Corn	a. rows up-and-down hill	-- none --	-- none --	9.9	9.9	26.68
@@ Front K26A		temp\Grain Corn, FC Silage Corn, SC Silage Corn,Wheat	a. rows up-and-down hill	-- none --	-- none --	5.0	5.0	36.00
@@ Front K26A		temp\Grain Corn, FC Silage Corn, SC Silage Corn, NT Wheat	a. rows up-and-down hill	-- none --	-- none --	4.1	4.1	33.03
@@ Front K26A		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.096	0.096	54.00
@@ Back K26B		temp\Grain Corn	a. rows up-and-down hill	-- none --	-- none --	3.6	3.6	34.29
@@ East K27		temp\Grain Corn	a. rows up-and-down hill	-- none --	-- none --	3.6	3.6	34.29
(b) (6) 108th EM28A		temp\SC,Fall Solid Manure, SC, Fall Solid Manure, SC (16ton)	a. rows up-and-down hill	-- none --	-- none --	9.1	9.1	30.38
(b) (6) 108th EM28A		temp\Walnutdale, Silage corn, Fall solids 20ton, Wheat, Summer solids 20ton	a. rows up-and-down hill	-- none --	-- none --	3.2	3.2	23.55
(b) (6) 108th EM28A		temp\Walnutdale, Silage corn, Fall solids 20ton, Wheat, Summer 7500gal, Summer seeding Alfalfa	a. rows up-and-down hill	-- none --	-- none --	1.6	1.6	110.1
(b) (6) 108th EM28B		temp\Corn Silage, Fall solids, Corn Silage, Fall solids, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	7.6	7.6	33.30
(b) (6) 108th EM28B		temp\Cn sil, L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	1.9	1.9	26.38
Caledonia C30A		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.029	0.029	47.25
Caledonia C30B		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.075	0.075	54.00
Duncan Lake DL31A		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.12	0.12	54.00
Duncan Lake DL31B		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.20	0.20	54.00

(b) (6)		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.11	0.11	54.00
@@ @@ JS33		temp\Wheat, Summer Manure, Corn Silage, Fall Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	0.48	0.48	28.77
@@ C34		temp\Silage Corn, Fall Chisel, Fcult, Silage Corn	a. rows up-and-down hill	-- none --	-- none --	2.8	2.8	14.09
@@ C-35		temp\Silage Corn, Fall Chisel, Fcult, Silage Corn	a. rows up-and-down hill	-- none --	-- none --	2.4	2.4	13.69
@@ C-36		temp\Silage Corn, Fall Chisel, Fcult, Silage Corn	a. rows up-and-down hill	-- none --	-- none --	2.4	2.4	13.69
United Bank UB37A		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	6.3	6.3	21.98
United Bank UB37A		temp\Cn sil., L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	1.8	1.8	23.08
United Bank UB37B		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	6.3	6.3	21.98
United Bank UB37B		temp\Cn sil., L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	1.8	1.8	23.08
Wingers 14th W38A		temp\Established alfalfa, Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	0.79	0.79	38.98
Wingers 14th W38B		temp\Established alfalfa, Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	0.66	0.66	38.98
(b) (6) 139th MR39A		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	4.9	4.9	21.98
(b) (6) 139th MR39A		temp\Cn sil., L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	1.5	1.5	23.08
(b) (6) 139th MR39B		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	4.9	4.9	21.98
(b) (6) 139th MR39B		temp\Cn sil., L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	1.5	1.5	23.08
@@ 134th N40A		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	2.3	2.3	30.15
@@ 134th N40B		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	5.0	5.0	25.13

(b) (6) 134th N40B		temp\Cn sil, L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	1.5	1.5	26.38
@@ 135th N40C		temp\Silage Corn, Fall Chisel, Fcult, Silage Corn	a. rows up-and-down hill	-- none --	-- none --	1.5	1.5	15.65
@@ N E41		temp\Silage Corn, fall 7500gal, Silage Corn, Fall soils 10ton, Silage Corn, Wheat,Summer Alfalfa	a. rows up-and-down hill	-- none --	-- none --	3.1	3.1	123.5
@@ 42 E42		temp\Silage corn, Liquid manure, Wheat, liquid manure, Summer Alfalfa	a. rows up-and-down hill	-- none --	-- none --	1.8	1.8	110.8
@@ 43 T43		temp\Grain Corn, Grain Corn, Grain Corn	a. rows up-and-down hill	-- none --	-- none --	7.9	7.9	0
@@ 43 T43		temp\Grain Corn, Grain Corn, Wheat	a. rows up-and-down hill	-- none --	-- none --	0.63	0.63	20.23
@@ 44 T44		temp\Grain Corn, Grain Corn, Grain Corn	a. rows up-and-down hill	-- none --	-- none --	7.9	7.9	0
@@ 44 T44		temp\Grain Corn, Grain Corn, Wheat	a. rows up-and-down hill	-- none --	-- none --	0.63	0.63	20.23
@@ 45 T45		temp\Grain Corn, Grain Corn, Grain Corn	a. rows up-and-down hill	-- none --	-- none --	7.9	7.9	0
@@ T45		temp\Grain Corn, Grain Corn, Wheat	a. rows up-and-down hill	-- none --	-- none --	0.63	0.63	20.23
M @@ MK46A		temp\140bu Grain corn, fall cult 3yrs	a. rows up-and-down hill	-- none --	-- none --	1.8	1.8	22.12
M @@ MK46B		temp\140bu Grain corn, fall cult 3yrs	a. rows up-and-down hill	-- none --	-- none --	1.8	1.8	22.12
M @@ E MK47		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.048	0.048	47.25
@@ NW J48		temp\Alfalfa, Spring Liquid manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	0.61	0.61	33.38
@@ NW2 J49		temp\Alfalfa, Spring Liquid manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	0.61	0.61	33.38
@@ J50		temp\Alfalfa, Spring Manure, SC, Spring manure, SC	a. rows up-and-down hill	-- none --	-- none --	2.0	2.0	43.14
@@ M J51		temp\Alfalfa, Spring Manure, SC, Spring manure, SC	a. rows up-and-down hill	-- none --	-- none --	2.0	2.0	43.14
@@ E J52		temp\Alfalfa, Spring Liquid manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	1.7	1.7	33.38
@@ JS53		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.038	0.038	47.25

(b) (6) front N57		temp\140bu Grain corn, fall cult 3yrs	a. rows up-and-down hill	-- none --	-- none --	1.3	1.3	22.12
@@ 58 N58A		temp\140bu Grain corn, fall cult 3yrs	a. rows up-and-down hill	-- none --	-- none --	5.8	5.8	25.28
@@ 58 N58A		temp\Grain Corn, Grain Corn, Wheat	a. rows up-and-down hill	-- none --	-- none --	2.5	2.5	23.13
@@ 58 N58B		temp\140bu Grain corn, fall cult 3yrs	a. rows up-and-down hill	-- none --	-- none --	1.8	1.8	22.12
@@ 58 N58C		temp\140bu Grain corn, fall cult 3yrs	a. rows up-and-down hill	-- none --	-- none --	2.4	2.4	25.28
@@ 59 N59		temp\140bu Grain corn, fall cult 3yrs	a. rows up-and-down hill	-- none --	-- none --	2.4	2.4	25.28
@@ N60		temp\140bu Grain corn, fall cult 3yrs	a. rows up-and-down hill	-- none --	-- none --	3.4	3.4	25.28
@@ Front MN61A		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	5.8	5.8	25.13
@@ Front MN61A		temp\Cn sil., L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	1.8	1.8	26.38
@@ MN61B		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	15	15	25.13
@@ MN61B		temp\Cn sil., L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	4.3	4.3	26.38
@@ Center MN61C		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	8.9	8.9	25.13
@@ Center MN61C		temp\Cn sil., L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	2.7	2.7	26.38
@@ North MN61D		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	-- none --	-- none --	8.9	8.9	25.13
@@ North MN61D		temp\Cn sil., L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	-- none --	-- none --	2.7	2.7	26.38
Chesbro 40N C65A		temp\Wheat, Summer Alfalfa Seeding	a. rows up-and-down hill	-- none --	-- none --	1.1	1.1	96.58
Chesbro 40S C65B		temp\Wheat, Summer Alfalfa Seeding	a. rows up-and-down hill	-- none --	-- none --	1.1	1.1	96.58

Chesbro SW C66		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up- and-down hill	-- none --	-- none --	9.9	9.9	25.13
Chesbro SW C66		temp\Corn Silage, Liquid Manure, Wheat, Liquid Manure, Corn Silage	a. rows up- and-down hill	-- none --	-- none --	2.9	2.9	26.38
Chesbro SM C67		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up- and-down hill	-- none --	-- none --	16	16	25.13
Chesbro SM C67		temp\Corn Silage, Liquid Manure, Wheat, Liquid Manure, Corn Silage	a. rows up- and-down hill	-- none --	-- none --	4.5	4.5	26.38
Chesbro SE C68		temp\Wheat, Summer Alfalfa Seeding	a. rows up- and-down hill	-- none --	-- none --	2.3	2.3	96.58
Chesbro S back C69		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up- and-down hill	-- none --	-- none --	12	12	25.13
Chesbro S back C69		temp\Corn Silage, Liquid Manure, Wheat, Liquid Manure, Corn Silage	a. rows up- and-down hill	-- none --	-- none --	3.3	3.3	26.38
Chesbro 70E C70E		temp\140bu Grain corn, fall cult 3yrs	a. rows up- and-down hill	-- none --	-- none --	4.9	4.9	25.28
Chesbro 70W C70W		temp\140bu Grain corn, fall cult 3yrs	a. rows up- and-down hill	-- none --	-- none --	3.2	3.2	22.12
Chesbro 9ac C72		temp\Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up- and-down hill	-- none --	-- none --	0.99	0.99	22.61
17-1		temp\Cn sil, L. Manure, Cn sil., L. Manure, spring Alfalfa	a. rows up- and-down hill	-- none --	-- none --	1.4	1.4	36.61
17-2		temp\Cn sil, L. Manure, Cn sil., L. Manure, spring Alfalfa	a. rows up- and-down hill	-- none --	-- none --	3.0	3.0	40.67
17-3		temp\Cn sil, L. Manure, Cn sil., L. Manure, spring Alfalfa	a. rows up- and-down hill	-- none --	-- none --	3.4	3.4	48.81
17-4		temp\Cn sil, L. Manure, Cn sil., L. Manure, spring Alfalfa	a. rows up- and-down hill	-- none --	-- none --	3.4	3.4	48.81
17-5		temp\Cn sil, L. Manure, Cn sil., L. Manure, spring Alfalfa	a. rows up- and-down hill	-- none --	-- none --	3.0	3.0	40.67

(b) (6) 17-6		temp\Cn sil, L. Manure, Cn sil., L. Manure, spring Alfalfa 4 years	a. rows up-and-down hill	-- none --	-- none --	2.4	2.4	121.7
(b) (6) 17-7		temp\Cn sil, L. Manure, Cn sil., L. Manure, spring Alfalfa 4 years	a. rows up-and-down hill	-- none --	-- none --	0.89	0.89	109.5
(b) (6) NW BNW		temp\Silage Corn, Liquid Manure, Spring Seed Oats/Alfalfa	a. rows up-and-down hill	-- none --	-- none --	1.4	1.4	98.10
(b) (6) B73W		temp\Silage Corn, Liquid Manure, Spring Seed Oats/Alfalfa	a. rows up-and-down hill	-- none --	-- none --	2.8	2.8	98.10
(b) (6) E B73E		temp\Silage Corn, Liquid Manure, Spring Seed Oats/Alfalfa	a. rows up-and-down hill	-- none --	-- none --	3.9	3.9	98.10
4th st 4th		temp\Est Alfalfa Two Years	a. rows up-and-down hill	-- none --	-- none --	0.051	0.051	54.00
(b) (6) Thomp		temp\Soybeans, Spring chisel, Silage Corn, Fall Liquid manure, Fall Till, silage corn	a. rows up-and-down hill	-- none --	-- none --	2.9	2.9	25.86
(b) (6) Kam		temp\Grain Corn, Spring Cult, Silage corn, fall Manure	a. rows up-and-down hill	-- none --	-- none --	1.5	1.5	18.38

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: Home 3

H3

Location: Michigan\Allegan County

Soil: 75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%

Slope length (horiz): 230 ft

Avg. slope steepness: 10 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Walnutdale Silage corn, Fall Liquid @7500gal, Fall Cult, Silage Corn	a. rows up-and-down hill	(none)	(none)	23	
Walnutdale, Silage corn, Fall liquid 7500gal, Silage corn, Fall liquid 5000 gal, Wheat	a. rows up-and-down hill	(none)	(none)	7.1	
Walnutdale Silage corn, Fall 7500gal, Silage corn, Fall 5000, Wheat, Summer 7500, Summer Alfalfa 6 yrs	a. rows up-and-down hill	(none)	(none)	5.6	

Under the current crop plan (silage corn with manure applications) the predicted rate of erosion exceeds the tolerable limit. Rotating this field into alfalfa will reduce the soil erosion to below tolerable rates.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: Home 4

H4A

Location: Michigan\Allegan County

Soil: 14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%

Slope length (horiz): 120 ft

Avg. slope steepness: 9.0 %

T value: 5.0 t/ac/yr

Alternatives:

<i>Management</i>	<i>Contouring</i>	<i>Strips / barriers</i>	<i>Diversion/terrace, sediment basin</i>	<i>Cons. plan. soil loss, t/ac/yr</i>	<i>Description</i>
Walnutdale Silage corn, Fall Liquid @7500gal, Fall Cult, Silage Corn	a. rows up-and-down hill	(none)	(none)	15	
Walnutdale, Silage corn, Fall liquid 7500gal, Silage corn, Fall liquid 5000 gal, Wheat	a. rows up-and-down hill	(none)	(none)	5.0	

Under the current crop plan the predicted rate of soil erosion exceeds the tolerable limit.

Adding wheat into the rotation will bring the estimated rate of erosion to the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: Home 4

H4B

Location: Michigan\Allegan County

Soil: 14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%

Slope length (horiz): 370 ft

Avg. slope steepness: 3.0 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Silage Corn, Fall Chisel, Fcult, Silage Corn	a. rows up-and-down hill	(none)	(none)	6.5	
SC,Fall Manure,SC,SC, Wheat	a. rows up-and-down hill	(none)	(none)	2.1	

Under the current crop plan the predicted rate of erosion exceeds the tolerable limit.

Adding wheat into the rotation will bring the predicted rate of erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: Home 4

H4C

Location: Michigan\Allegan County

Soil: 14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Mariette loam 90%

Slope length (horiz): 190 ft

Avg. slope steepness: 6.0 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Silage Corn, fall 7500gal, Silage Corn, Fall soils 10ton, Silage Corn	a. rows up-and-down hill	(none)	(none)	11	
Silage Corn, Liquid manure, Wheat, Silage corn	a. rows up-and-down hill	(none)	(none)	4.6	

Under the current crop plan the estimated rate of soil erosion exceeds the tolerable limit.

Adding wheat into the rotation on this field will bring the predicted rate of erosion below the tolerable limi.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: Home 4

H4D

Location: Michigan\Allegan County

Soil: 16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%

Slope length (horiz): 180 ft

Avg. slope steepness: 4.0 %

T value: 5.0 t/ac/yr

Alternatives:

<i>Management</i>	<i>Contouring</i>	<i>Strips / barriers</i>	<i>Diversion/terrace, sediment basin</i>	<i>Cons. plan. soil loss, t/ac/yr</i>	<i>Description</i>
Silage Corn, Fall Chisel, Fcult, Silage Corn	a. rows up-and-down hill	(none)	(none)	7.2	
Silage Corn, FC, fcult, Silage Corn, FC, fcult, Wheat	a. rows up-and-down hill	(none)	(none)	3.5	

Under the current crop plan the estimated rate of soil erosion exceeds the tolerable limit.

Adding wheat into the rotation will bring the predicted rate of soil erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: Home 8

H8

Location: Michigan\Allegan County

Soil: 11B OSHTEMO-CHELSEA COMPLEX, 0 TO 6 PERCENT SLOPES\Oshtemo loamy sand 65%

Slope length (horiz): 150 ft

Avg. slope steepness: 6.0 %

T value: 5.0 t/ac/yr

Alternatives:

<i>Management</i>	<i>Contouring</i>	<i>Strips / barriers</i>	<i>Diversion/terrace, sediment basin</i>	<i>Cons. plan. soil loss, t/ac/yr</i>	<i>Description</i>
SC,Fall Solid Manure, SC, Fall Solid Manure, SC (16ton)	a. rows up-and-down hill	(none)	(none)	5.9	
SC,Fall Solid Manure, SC, Fall Solid Manure, SC (16ton), spring AA	a. rows up-and-down hill	(none)	(none)	3.1	

If this field stays in silage corn, the predicted rate of soil erosion exceeds the tolerable limit.

The crop plan is to seed this field in the spring or fall of 2008. Alfalfa will prevent soil erosion from occurring at rates greater than the tolerable limits.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: @@ n of Dr

ED21A

Location: Michigan\Allegan County

Soil: 16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%

Slope length (horiz): 250 ft

Avg. slope steepness: 4.0 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	6.8	
Corn Silage, Liquid Manure, Wheat, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	2.3	

Under the current crop plan the estimated rate of soil erosion exceeds the tolerable limit.

Adding wheat into this rotation will bring the predicted rate of soil erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: **88** N of Dr
ED21B

Location: Michigan\Allegan County

Soil: 16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%

Slope length (horiz): 190 ft

Avg. slope steepness: 6.0 %

T value: 5.0 t/ac/yr

Alternatives:

<i>Management</i>	<i>Contouring</i>	<i>Strips / barriers</i>	<i>Diversion/terrace, sediment basin</i>	<i>Cons. plan. soil loss, t/ac/yr</i>	<i>Description</i>
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	9.7	
Corn Silage, Liquid Manure, Wheat, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	3.2	

Under the current crop plan the estimated rate of soil erosion exceeds the tolerable limit.

Adding wheat to the rotation will bring the predicted rate of erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name:  W Front

K26A

Location: Michigan\Allegan County

Soil: 41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%

Slope length (horiz): 100 ft

Avg. slope steepness: 6.0 %

T value: 3.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Grain Corn, FC Silage Corn, SC Silage Corn	a. rows up-and-down hill	(none)	(none)	9.9	
Grain Corn, FC Silage Corn, SC Silage Corn, Wheat	a. rows up-and-down hill	(none)	(none)	5.0	
Grain Corn, FC Silage Corn, SC Silage Corn, NT Wheat	a. rows up-and-down hill	(none)	(none)	4.1	
Est Alfalfa Two Years	a. rows up-and-down hill	(none)	(none)	0.096	
140bu Grain corn, fall cult 3yrs	a. rows up-and-down hill	(none)	(none)	2.9	

Under the current crop plan the predicted rate of soil erosion exceeds the tolerable limit.

When corn is chopped off this field, it should be followed by wheat to reduce the rate of erosion on this field.

Crops on this field should be high residue crops (wheat, alfalfa, grain corn) and minimum tillage should be considered.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: (b) (6) or 108th

EM28A

Location: Michigan\Allegan County

Soil: 41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%

Slope length (horiz): 150 ft

Avg. slope steepness: 4.0 %

T value: 3.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
SC,Fall Solid Manure, SC, Fall Solid Manure, SC	a. rows up-and-down hill	(none)	(none)	9.1	
Walnutdale, Silage corn, Fall solids 20ton, Wheat, Summer solids 20ton	a. rows up-and-down hill	(none)	(none)	1.6	
Walnutdale, Silage corn, Fall solids 20ton, Wheat, Summer 7500gal, Summer seeding Alfalfa	a. rows up-and-down hill	(none)	(none)	1.6	

A crop plan of silage corn and solid manure has an estimated rate of soil erosion that exceeds the tolerable limit on this field.

Wheat or alfalfa should be rotated on this field, the additional residues and reduced tillage would bring the predicted rate of erosion below the tolerable limits.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: (b) (6) 108th
EM28B

Location: Michigan\Allegan County

Soil: 75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%

Slope length (horiz): 200 ft

Avg. slope steepness: 4.0 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Fall solids, Corn Silage, Fall solids, Corn Silage	a. rows up-and-down hill	(none)	(none)	7.6	
Cn sil, L. Manure, Cn sil., L. Manure, Wheat, Corn Silage	a. rows up-and-down hill	(none)	(none)	4.2	

Under the current crop rotation the estimated rate of soil erosion exceeds the tolerable limit.

Adding wheat into the rotation every four years will bring the estimated rate of erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: United Bank

UB37A

Location: Michigan\Allegan County

Soil: 27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%

Slope length (horiz): 150 ft

Avg. slope steepness: 6.0 %

T value: 4.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	6.6	
Walnutdale, Silage corn, Fall liquid 7500gal, Silage corn, Fall liquid 5000 gal, Wheat	a. rows up-and-down hill	(none)	(none)	2.3	
Walnutdale, Silage corn, Fall manure, Silage corn, fall manure, Silage corn, Fall manure, Wheat	a. rows up-and-down hill	(none)	(none)	4.0	

Under the current crop plan the estimated rate of soil erosion exceeds the tolerable limit.

Adding wheat to the rotation every fourth year will bring the predicted rate to the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: United Bank

UB37B

Location: Michigan\Allegan County

Soil: 27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%

Slope length (horiz): 150 ft

Avg. slope steepness: 6.0 %

T value: 4.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	6.3	
Cn sil, L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	(none)	(none)	1.8	
Walnutdale, Silage corn, Fall manure, Silage corn, fall manure, Silage corn, Fall manure, Wheat	a. rows up-and-down hill	(none)	(none)	4.0	

The predicted rate of soil erosion under the current crop plan exceeds the tolerable limit.

Adding wheat into the rotation every fourth year will bring the predicted rate of erosion to the tolerable limit.



RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: (b) (6) 139th

MR39A

Location: Michigan\Allegan County

Soil: 27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%

Slope length (horiz): 150 ft

Avg. slope steepness: 6.0 %

T value: 4.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	4.9	
Cn sil, L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	(none)	(none)	1.5	
Walnutdale, Silage corn, Fall manure, Silage corn, fall manure, Silage corn, Fall manure, Wheat	a. rows up-and-down hill	(none)	(none)	3.2	

Under the current crop plan the estimated rate of erosion exceeds the tolerable limit.

Adding wheat to the crop rotation every fourth year will bring the estimated rate of erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: (b) (6) 139th

MR39B

Location: Michigan\Allegan County

Soil: 27B METEA LOAMY FINE SAND, 1 TO 6 PERCENT SLOPES\Metea loamy fine sand 90%

Slope length (horiz): 150 ft

Avg. slope steepness: 6.0 %

T value: 4.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	4.9	
Walnutdale, Silage corn, Fall manure, Silage corn, fall manure, Silage corn, Fall manure, Wheat	a. rows up-and-down hill	(none)	(none)	3.2	
Cn sil, L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	(none)	(none)	1.5	

Under the current crop plan the estimated rate of soil erosion exceeds the tolerable limit.

Adding wheat into the rotation every fourth year will bring the predicted rate of erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: **@@** 134th

N40B

Location: Michigan\Allegan County

Soil: 41B BLOUNT SILT LOAM, 1 TO 4 PERCENT SLOPES\Blount silt loam 90%

Slope length (horiz): 150 ft

Avg. slope steepness: 2.0 %

T value: 3.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	5.0	
Cn sil, L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	(none)	(none)	1.5	

Continuous corn silage on this field with manure applications with the current tillage practices has a predicted rate of soil erosion that exceeds the tolerable rate.

Adding wheat into the rotation will bring the predicted rate of erosion below the tolerable limit.



RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: [REDACTED] 58

N58A

Location: Michigan\Allegan County

Soil: 75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%

Slope length (horiz): 150 ft

Avg. slope steepness: 12 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
140bu Grain corn, fall cult 3yrs	a. rows up-and-down hill	(none)	(none)	5.6	
Grain Corn, Grain Corn, Wheat	a. rows up-and-down hill	(none)	(none)	2.5	

The current crop plan for this field has a predicted rate of soil erosion that exceeds the tolerable limit.

Adding wheat into the rotation every third year will bring the predicted rate of erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name:  Front

MN61A

Location: Michigan\Allegan County

Soil: 16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%

Slope length (horiz): 150 ft

Avg. slope steepness: 4.0 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	5.8	
Cn sil, L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	(none)	(none)	1.8	
Walnutdale, Silage corn, Fall manure, Silage corn, fall manure, Silage corn, Fall manure, Wheat, Silage Corn	a. rows up-and-down hill	(none)	(none)	4.3	

The current crop rotation for this field has a predicted rate of soil erosion that exceeds the tolerable limit. Rotating wheat on this field every fifth year brings the predicted rate of erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: **[REDACTED]**

MN61B

Location: Michigan\Allegan County

Soil: 16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%

Slope length (horiz): 250 ft

Avg. slope steepness: 8.0 %

T value: 5.0 t/ac/yr

Alternatives:

<i>Management</i>	<i>Contouring</i>	<i>Strips / barriers</i>	<i>Diversion/terrace, sediment basin</i>	<i>Cons. plan. soil loss, t/ac/yr</i>	<i>Description</i>
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	15	
Cn sil, L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	(none)	(none)	4.3	

The current crop plan has an estimated rate of soil erosion that exceeds the tolerable limit.

Adding wheat into the crop rotation will bring the predicted rate of erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: **@@** Center

MN61C

Location: Michigan\Allegan County

Soil: 16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%

Slope length (horiz): 150 ft

Avg. slope steepness: 6.0 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	8.9	
Cn sil, L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	(none)	(none)	2.7	

The current crop plan has an estimated rate of soil erosion that exceeds the tolerable limit.

Adding wheat into the rotation will bring the predicted rate of soil erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: [REDACTED] North

MN61D

Location: Michigan\Allegan County

Soil: 16B CAPAC LOAM, 0 TO 6 PERCENT SLOPES\Capac loam 90%

Slope length (horiz): 150 ft

Avg. slope steepness: 6.0 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	8.9	
Cn sil, L. Manure, Cn sil., L. Manure, Wheat	a. rows up-and-down hill	(none)	(none)	2.7	

The current crop plan has an estimated rate of soil erosion that exceeds the tolerable limit.

Adding wheat into the crop rotation would bring the predicted rate of soil erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: Chesebro SW

C66

Location: Michigan\Allegan County

Soil: 75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%

Slope length (horiz): 200 ft

Avg. slope steepness: 6.0 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	9.9	
Corn Silage, Liquid Manure, Wheat, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	3.6	

The current crop plan has an estimated rate of soil erosion that exceeds the tolerable limit.

Adding wheat into a three year rotation will bring the predicted rate below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: Chesebro SM

C67

Location: Michigan\Allegan County

Soil: 14C MARLETTE LOAM , 6 TO 12 PERCENT SLOPES\Marlette loam 90%

Slope length (horiz): 150 ft

Avg. slope steepness: 8.0 %

T value: 5.0 t/ac/yr

Alternatives:

Management	Contouring	Strips / barriers	Diversion/terrace, sediment basin	Cons. plan. soil loss, t/ac/yr	Description
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	16	
Corn Silage, Liquid Manure, Wheat, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	4.5	

The predicted rate of soil erosion under the current crop plan exceeds the tolerable limit.

Adding wheat to the crop rotation will bring the predicted rate of soil erosion below the tolerable limit.

RUSLE2 Worksheet Erosion Calculation Record

Info:

Tract #: **Tract number**

Owner name: Walnutdale Farm

Field name: Chesebro S back

C69

Location: Michigan\Allegan County

Soil: 75B MARLETTE-CAPAC LOAMS, 1 TO 6 PERCENT SLOPES\Marlette loam 55%

Slope length (horiz): 150 ft

Avg. slope steepness: 6.0 %

T value: 5.0 t/ac/yr

Alternatives:

<i>Management</i>	<i>Contouring</i>	<i>Strips / barriers</i>	<i>Diversion/terrace, sediment basin</i>	<i>Cons. plan. soil loss, t/ac/yr</i>	<i>Description</i>
Corn Silage, Liquid Manure, Corn Silage, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	12	
Corn Silage, Liquid Manure, Wheat, Liquid Manure, Corn Silage	a. rows up-and-down hill	(none)	(none)	3.3	

The estimated rate of soil erosion with the current crop plan exceeds the tolerable limit.

Adding wheat to the crop rotation will bring the predicted rate of erosion below the tolerable limit.